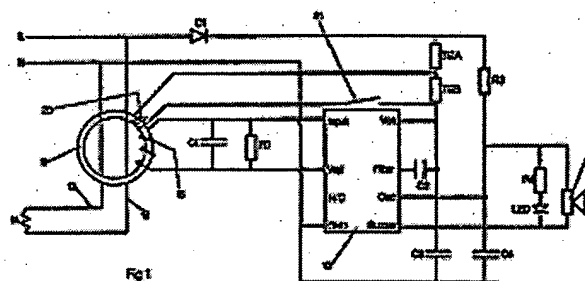


Residual current circuit

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- international: G01R31/02; H02H3/33
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Abstract of GB2286936

A residual current circuit includes a current transformer 11 for detecting an earth leakage current associated with a load 14 connected across the live L and neutral N conductors of an AC mains, and an IC 10 for providing a fault signal when such current exceeds a certain threshold. A capacitor C4 is connected to the live conductor and a transistor switch in the IC is responsive to the fault signal such that in the absence of a fault signal the switch shorts out the capacitor C4 to prevent it from charging up and when there is a fault signal the switch permits the capacitor C4 to charge up. The circuit further including a device such as a buzzer 19 which is activated when the voltage across the capacitor C4 reaches a certain level.



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